

U.S. Patent No. 5,735,886, now withdrawn, which is a Continuation-In-Part of U.S. Patent Application Serial No. 08/465,766, filed June 6, 1995, now issued as U.S. Patent No. 5,895,415, which are incorporated by reference herein.

In the Abstract

Please amend the Abstract of the Disclosure to read as follows:

An artificial retina device and a retinal stimulation system and method for stimulating and modulating its function is disclosed. The artificial retina device includes multi-phasic microphotodiode subunits. In persons suffering from blindness due to outer retinal layer damage, a plurality of such devices, when surgically implanted into the subretinal space, may allow useful formed artificial vision to develop. By projecting real or computer controlled visible light images, and computer controlled infrared light images or illumination, simultaneously or in rapid alternation onto the artificial retina device, the nature of induced retinal images may be modulated and improved. The retinal stimulation system may be worn as a headset. Color images may be induced by programming the stimulating pulse durations and frequencies of the stimulation.

In the Claims:

Please cancel claims 1-56 without prejudice and add new claims 57-77 as follows:

57. (New) A retinal stimulation system comprising:
a first light receiver for receipt of an ambient image;
a light processor, coupled to the first light receiver, to provide image-based control based on the ambient image;
a light projector, coupled to the light processor, to provide light output based on the image-based control; and
a second light receiver adapted to receive at least the light output.

58. (New) The retinal stimulation system of claim 57, wherein the light output comprises diffuse infrared light.